1. A capillary array electrophoresis plate, comprising:

an array of separation channels formed on said plate; and

an array of sample reservoirs formed on said plate and coupled to said separation channels.

2. The plate of claim 1, wherein said array of sample reservoirs are organized into one or more sample injectors.

3. The plate of claim 2, further comprising a waste reservoir positioned in each sample injector.

4. The plate of claim 3, wherein one of said waste reservoirs is coupled to one or more sample reservoirs in each sample injector.

5. The plate of claim 1, further comprising a cathode reservoir, said cathode reservoir being connected to one or more separation channels.

6. The plate of claim 1, further comprising an anode reservoir common to one or more separation channels.

7. The plate of claim 1, wherein the plate has one set of reservoirs positioned near an outer perimeter, and one set of reservoirs positioned near a center and the separation channels connect the reservoirs near the outer perimeter to reservoirs

near the center.

8. The plate of claim 7, wherein the separation channels radially connect the outer perimeter to the center.

9. The plate of claim 1, further comprising an electrode array coupleable to said reservoir array.

10. The plate of claim 9, further comprising a reservoir array layer having an array of openings coupleable to said reservoir array.

11. The plate of claim 1, wherein said reservoir array is regularly spaced in one or two dimensions on said plate and adapted to engage a multi-headed pipetter.

12. A capillary array electrophoresis plate, comprising:

a plurality of separation channels formed at a surface of said plate;

one or more anode reservoirs formed at a surface of said plate; and

one or more injectors formed at a surface of said plate, said injector having:

a plurality of sample reservoirs formed on said plate and coupled to said separation channels;

a plurality of waste reservoirs formed on said plate

and coupled to said separation channels; and

at least one cathode reservoir multiplexed with a plurality of said separation channels.

13. The plate of claim 12, further comprising an electrode array coupleable to said reservoirs.

14. The plate of claim 12, wherein the plate has an outer perimeter and a center and the separation channels connect the outer perimeter to the center.

15. A capillary array electrophoresis plate comprising:

an array of microfabricated separation channels formed at a surface of a first microfabricated substrate and a corresponding surface of a second substrate bonded to said first and second substrates, each of said channels having first and second ends;

an array of sample reservoirs formed at a surface of said plate;

an array of waste reservoirs formed at a surface of said plate;

an array of cathode reservoirs coupled to the first end of each of the separation channels;

an array of anode reservoirs coupled to the second end of each of the separation channels; and

an injector formed by an injection channel connected to one or more sample reservoirs that crosses a separation channel and

connects to a waste reservoir.

16. The capillary array electrophoresis plate of claim 15, wherein both substrates are microfabricated.

17. The capillary array electrophoresis plate of claim 15, wherein the substrates are made of glass.

18. The capillary array electrophoresis plate of claim 15, wherein the substrates are made of plastic.

19. The capillary array electrophoresis plate of claim 15, wherein one or more separation channels are connected to a common cathode reservoir.

20. The capillary array electrophoresis plate of claim 15, wherein one or more separation channels are connected to a common waste reservoir.

21. The capillary array electrophoresis plate of claim 15, wherein one or more separation channels are connected to a common anode reservoir.

22. The capillary array electrophoresis plate of claim 15, wherein one or more sample reservoirs are connected to one separation channel and one or more waste reservoirs.

23. The capillary array electrophoresis plate of claim 15, further comprising a reservoir array layer mounted above the plate, the reservoir array layer having openings positioned to couple to the sample reservoirs, the waste reservoirs, the cathode reservoirs, and the anode reservoirs.

24. The plate of claim 15, further comprising an electrode array coupleable to said reservoir array layer.

25. The capillary array electrophoresis plate of claim 15, wherein the first substrate has an array of electrodes aligned with the sample reservoirs, the waste reservoirs, the cathode reservoirs, and the anode reservoirs to make electrical contacts with the solutions in the reservoirs.

26. The capillary array electrophoresis plate of claim 24 wherein said electrode array is integral with the two substrates.

27. The capillary array electrophoresis plate of claim 26, wherein the sample reservoirs are regularly spaced on the plate to receive solutions from a multi-headed pipetter system.

28. The capillary array electrophoresis plate of claim 15, wherein the plate has H holes, and wherein H is approximately equal to 5N/4, with N being the number of samples to be

processed.

29. The capillary array electrophoresis plate of claim 15, wherein the distance from each cathode reservoir to a corresponding injector is approximately equal and where the distance from each injector to its corresponding anode reservoir for each separation channel is approximately equal.

30. The capillary array electrophoresis plate of claim 15, wherein the plate is made of glass or plastic.

31. A method of forming a capillary array electrophoresis plate, comprising:

forming an array of microfabricated separation channels at a surface of the plate;

forming an array of microfabricated sample reservoirs at a surface of the plate; and

connecting the array of microfabricated sample reservoirs to the array of microfabricated separation channels.

32. The method of claim 31, further comprising grouping the array of sample reservoirs into one or more injectors.

33. The method of claim 32, further comprising forming a waste reservoir in each sample injector.

34. The method of claim 33, further comprising multiplexing a cathode reservoir with the sample reservoirs.

35. The method of claim 34, further comprising multiplexing an anode reservoir to all sample reservoirs on the plate, wherein a distance from each cathode reservoir to a corresponding injector is approximately equal and where the distance from each injector to its corresponding anode reservoir for each separation channel is approximately equal.

36. A method for injecting a sample through a capillary array electrophoresis plate with microfabricated separation channels connected to sample reservoirs, waste reservoirs, cathode reservoirs, and anode reservoirs, the method comprising:

applying an injection voltage between a first reservoir and a waste reservoir to draw the sample into a cross channel region while applying a bias voltage to the cathode and anode reservoirs to control injection plug width;

applying a running voltage between the cathode and anode reservoirs; and

applying a biasing voltage to the waste and injector reservoirs to pull away residuals of the sample.